

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/267,439

DATE: 11/04/1999
 TIME: 13:50:26

INPUT SET: S33847.raw

**This Raw Listing contains the General
 Information Section and up to the first 5 pages.**

ENTERED

SEQUENCE LISTING

- 1
- 2
- 3 (1) General Information:
- 4
- 5 (i) APPLICANT: KAWAKAMI, YUTAKA; ROSENBERG,
- 6 STEVEN A.
- 7
- 8 (ii) TITLE OF INVENTION: MELANOMA ANTIGENS AND
- 9 THEIR USE IN DIAGNOSTIC AND THERAPEUTIC
- 10 METHODS
- 11
- 12 (iii) NUMBER OF SEQUENCES: 126
- 13
- 14 (iv) CORRESPONDENCE ADDRESS:
- 15 (A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
- 16 (B) STREET: 345 PARK AVENUE
- 17 (C) CITY: NEW YORK
- 18 (D) STATE: NEW YORK
- 19 (E) COUNTRY: USA
- 20 (F) ZIP: 10154
- 21
- 22 (v) COMPUTER READABLE FORM:
- 23 (A) MEDIUM TYPE: FLOPPY DISK
- 24 (B) COMPUTER: IBM PC COMPATIBLE
- 25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- 26 (D) SOFTWARE: ASCII
- 27
- 28 (vi) CURRENT APPLICATION DATA:
- 29 (A) APPLICATION NUMBER: 09/267,439
- 30 (B) FILING DATE:
- 31
- 32 (vii) PRIOR APPLICATION DATA:
- 33 (A) APPLICATION NUMBER: US/08/417,174
- 34 (B) FILING DATE: 05-APR-1995
- 35
- 36 (A) APPLICATION NUMBER: US/08/231,565
- 37 (B) FILING DATE: 22-APR-1994
- 38
- 39 (viii) ATTORNEY/AGENT INFORMATION:
- 40 (A) NAME: CAROL M. GRUPPI
- 41 (B) REGISTRATION NUMBER: 37,341
- 42 (C) REFERENCE/DOCKET NUMBER: 2026-4124US1
- 43
- 44 (ix) TELECOMMUNICATION INFORMATION:
- 45 (A) TELEPHONE: (212) 758-4800
- 46 (B) TELEFAX: (212) 751-6849

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(C) TELEX: 421792

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48

(2) INFORMATION FOR SEQ ID NO: 1:

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(i) SEQUENCE CHARACTERISTICS:

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(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

AGCAGACAGA GGACTCTCAT TAAGGAAGGT GTCCTGTGCC 40

CTGACCCTAC AAGATGCCAA GAGAAGATGC TCACTTCATC 80

TATGGTTACC CCAAGAAGGG GCACGGCCAC TCTTACACCA 120

CGGCTGAAGA GGCCGCTGGG ATCGGCATCC TGACAGTGAT 160

CCTGGGAGTC TTAGTGCTCA TCGGCTGTTG GTATTGTAGA 200

AGACGAAATG GATACAGAGC CTTGATGGAT AAAAGTCTTC 240

ATGTTGGCAC TCAATGTGCC TTAACAAGAA GATGCCCACA 280

AGAAGGGTTT GATCATCGGG ACAGCAAAGT GTCTCTTCAA 320

GAGAAAAACT GTGAACCTGT GGTTCCCAAT GCTCCACCTG 360

CTTATGAGAA ACTCTCTGCA GAACAGTCAC CACCACCTTA 400

TTCACCTTAA GAGCCAGCGA GACACCTGAG ACATGCTGAA 440

ATTATTTCTC TCACACTTTT GCTTGAATTT AATACAGACA 480

TCTAATGTTC TCCTTTGGAA TGGTGTAGGA AAAATGCAAG 520

CCATCTCTAA TAATAAGTCA GTGTTAAAAT TTTAGTAGGT 560

CCGCTAGCAG TACTAATCAT GTGAGGAAAT GATGAGAAAT 600

ATTAAATTGG GAAAACTCCA TCAATAAATG TTGCAATGCA 640

TGATACTATC TGTGCCAGAG GTAATGTTAG TAAATCCATG 680

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| | | |
|-----|--|------|
| 100 | GTGTTATTTT CTGAGAGACA GAATTCAAGT GGGTATTCTG | 720 |
| 101 | | |
| 102 | GGGCCATCCA ATTTCTCTTT ACTTGAAATT TGGCTAATAA | 760 |
| 103 | | |
| 104 | CAAAC TAGTC AGGTTTTCGA ACCTTGACCG ACATGAACTG | 800 |
| 105 | | |
| 106 | TACACAGAAT TGTTC CAGTA CTATGGAGTG CTCACAAAGG | 840 |
| 107 | | |
| 108 | ATACTTTTAC AGGTTAAGAC AAAGGGTTGA CTGGCCTATT | 880 |
| 109 | | |
| 110 | TATCTGATCA AGAACATGTC AGCAATGTCT CTTTGTGCTC | 920 |
| 111 | | |
| 112 | TAAAATTCTA TTATACTACA ATAATATATT GTAAAGATCC | 960 |
| 113 | | |
| 114 | TATAGCTCTT TTTTTTTGAG ATGGAGTTTC GCTTTTGTTG | 1000 |
| 115 | | |
| 116 | | |
| 117 | | |
| 118 | | |
| 119 | | |
| 120 | | |
| 121 | CCCAGGCTGG AGTGCAATGG CGCGATCTTG GCTCACCATA | 1040 |
| 122 | | |
| 123 | ACCTCCGCCT CCCAGGTTCA AGCAATTCTC CTGCCTTAGC | 1080 |
| 124 | | |
| 125 | CTCCTGAGTA GCTGGGATTA CAGGCGTGCG CCACTATGCC | 1120 |
| 126 | | |
| 127 | TGACTAATTT TGTAGTTTTA GTAGAGACGG GGTTTCTCCA | 1160 |
| 128 | | |
| 129 | TGTTGGTCAG GCTGGTCTCA AACTCCTGAC CTCAGGTGAT | 1200 |
| 130 | | |
| 131 | CTGCCCCGCT CAGCCTCCCA AAGTGCTGGA ATTACAGGCG | 1240 |
| 132 | | |
| 133 | TGAGCCACCA CGCCTGGCTG GATCCTATAT CTTAGGTAAG | 1280 |
| 134 | | |
| 135 | ACATATAACG CAGTCTAATT ACATTTCACT TCAAGGCTCA | 1320 |
| 136 | | |
| 137 | ATGCTATTCT AACTAATGAC AAGTATTTTC TACTAAACCA | 1360 |
| 138 | | |
| 139 | GAAATTGGTA GAAGGATTTA AATAAGTAAA AGCTACTATG | 1400 |
| 140 | | |
| 141 | TACTGCCTTA GTGCTGATGC CTGTGTACTG CCTTAAATGT | 1440 |
| 142 | | |
| 143 | ACCTATGGCA ATTTAGCTCT CTTGGGTTCC CAAATCCCTC | 1480 |
| 144 | | |
| 145 | TCACAAGAAT GTGCAGAAGA AATCATAAAG GATCAGAGAT | 1520 |
| 146 | | |
| 147 | TCTGAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA | 1559 |
| 148 | | |
| 149 | | |
| 150 | (2) INFORMATION FOR SEQ ID NO: 2: | |
| 151 | | |
| 152 | (i) SEQUENCE CHARACTERISTICS: | |

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153 (A) LENGTH: 118
154 (B) TYPE: amino acid
155 (C) STRANDEDNESS: Unknown
156 (D) TOPOLOGY: Unknown
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158 (ii) MOLECULE TYPE: Protein
159

160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
161

162 Met Pro Arg Glu Asp Ala His Phe Ile Tyr Gly Tyr Pro Lys
163 1 5 10
164 Lys Gly His Gly His Ser Tyr Thr Thr Ala Glu Glu Ala Ala
165 15 20 25
166 Gly Ile Gly Ile Leu Thr Val Ile Leu Gly Val Leu Leu Leu
167 30 35 40
168 Ile Gly Cys Trp Tyr Cys Arg Arg Arg Asn Gly Tyr Arg Ala
169 45 50 55
170 Leu Met Asp Lys Ser Leu His Val Gly Thr Gln Cys Ala Leu
171 60 65 70
172 Thr Arg Arg Cys Pro Gln Glu Gly Phe Asp His Arg Asp Ser
173 75 80
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180 Lys Val Ser Leu Gln Glu Lys Asn Cys Glu Pro Val Val Pro
181 85 90 95
182 Asn Ala Pro Pro Ala Tyr Glu Lys Leu Ser Ala Glu Gln Ser
183 100 105 110
184 Pro Pro Pro Tyr Ser Pro
185 115
186
187

188 (2) INFORMATION FOR SEQ ID NO: 3:
189

190 (i) SEQUENCE CHARACTERISTICS:
191 (A) LENGTH: 9
192 (B) TYPE: amino acid
193 (C) STRANDEDNESS: Unknown
194 (D) TOPOLOGY: Unknown
195

196 (ii) MOLECULE TYPE: Peptide
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198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
199
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201 Thr Thr Ala Glu Glu Ala Ala Gly Ile
202 1 5
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205 (2) INFORMATION FOR SEQ ID NO: 4:

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206
207 (i) SEQUENCE CHARACTERISTICS:
208 (A) LENGTH: 9
209 (B) TYPE: amino acid
210 (C) STRANDEDNESS: Unknown
211 (D) TOPOLOGY: Unknown
212
213 (ii) MOLECULE TYPE: Peptide
214
215 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
216
217
218 Ala Ala Gly Ile Gly Ile Leu Thr Val
219 1 5
220
221
222 (2) INFORMATION FOR SEQ ID NO: 5:
223
224 (i) SEQUENCE CHARACTERISTICS:
225 (A) LENGTH: 9
226 (B) TYPE: amino acid
227 (C) STRANDEDNESS: Unknown
228 (D) TOPOLOGY: Unknown
229
230 (ii) MOLECULE TYPE: Peptide
231
232 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
233
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236
237
238
239 Gly Ile Gly Ile Leu Thr Val Ile Leu
240 1 5
241
242
243 (2) INFORMATION FOR SEQ ID NO: 6:
244
245 (i) SEQUENCE CHARACTERISTICS:
246 (A) LENGTH: 9
247 (B) TYPE: amino acid
248 (C) STRANDEDNESS: Unknown
249 (D) TOPOLOGY: Unknown
250
25

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/267,439

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Line

Error

Original Text